

# **USER'S MANUAL**

## **UNITARY TYPE AND FLOOR-STANDING SPLIT TYPE**

**We sincerely thank you for purchasing our product. Please carefully read this User's Manual before using your air conditioner. Save this manual in a safe place for future reference.**

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## ATTENTIONS

Before operating your unit please read the manual thoroughly and severely conform to the operation methods mentioned in this manual. Otherwise, unexpected damage to unit or injury to yourself or others may occur.

### AIR CONDITIONER OPERATION CONDITIONS

Temperature \ Mode	Cooling operation	Heating operation
Room temperature	17°C ~ 32°C	17°C ~ 30°C
Outdoor temperature	18°C ~ 43°C	-7°C ~ 24°C

#### CAUTION:

If air conditioner is used beyond the above conditions, safety protection features may come into operation or cause dew dripping and affect cooling or heating effect.

### CHECK-UP BEFORE OPERATION

- Ensure the grounding wire is not broken off and connected well.
- Ensure the filter is well installed.
- Before you restart a long period-unused air conditioner, please clean the filter first.  
Refer to "Maintenance and cleaning" for details.
- Ensure the outlet and inlet of outdoor and indoor units is unblocked.

### OPTIMAL OPERATION

Pay attention to the following aspects to ensure an optimal operation.

Refer to relevant section for details.

- Adjust air flow direction for avoiding blowing directly to the people in the room.
- Set the temperature properly to obtain a comfort ambient. Too low temperature is not recommended.
- Please shelter from direct sunlight with curtain or window shutter during cooling operation.
- Please close door and window to avoid the formation of convection that may decrease cooling or heating effect.
- Please use your remote controller to set the desired run-time.
- Do not put anything near the inlet or outlet to block the airflow. Otherwise, it may decrease the effect of air conditioner, even stop it.
- Please clean air filter regularly. An air-logged air filter may affect cooling or heating effect.

#### CAUTION:

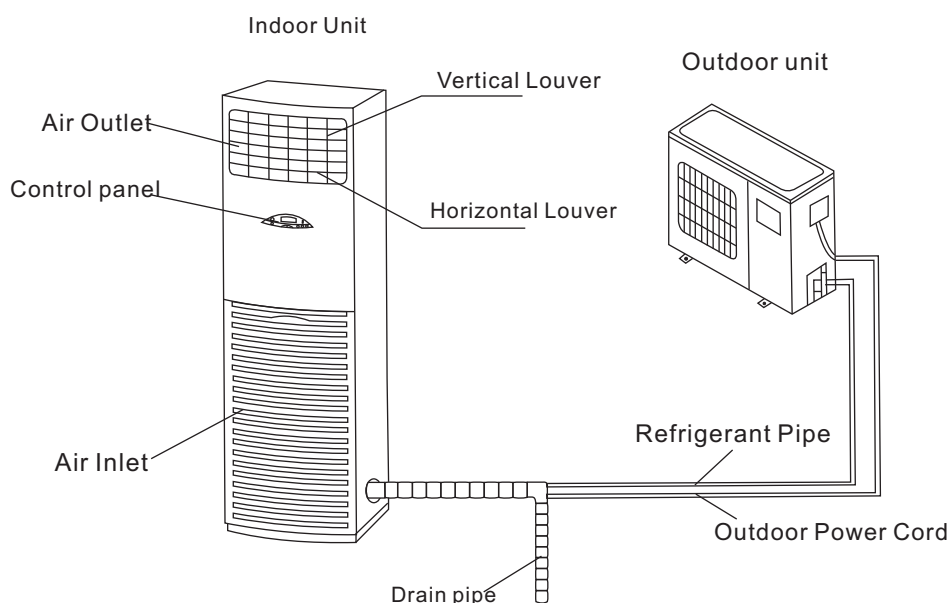
- Set the main power switch at some place untouched by young one.
- In rainy day please cut off power supply to avoid damage caused by lightning.
- If the unit is left unused for long time or nobody is in the conditioned room, please turn off the main power supply to avoid accident.
- Please turn off the main power supply to avoid accident before cleaning or maintaining the unit.
- Do not use cleaning agent, liquefacient or corrosive cleanser to clean the unit or spray water or other liquid at unit, all these may damage plastic components, even cause electric shock.

## DANGER:

- Do not insert your hands or stick into the outlet of indoor and outdoor units. Otherwise, the high-speed fan may cause serious injury.
- Do not touch the batten during the louver is rotating. Otherwise, it may clamp your fingers or cause damage to the gearing of louver.
- Do not attempt to take down the cover of outdoor unit fan to avoid likely injury to you.
- Do not let kids play the units to avoid likely injury.
- Do not wet indoor unit and remote controller. Otherwise, it may cause short circuit or fire.
- Do not use or restore flammable gas or liquid (such as fixture, paint, gasoline etc.) near the air conditioner to avoid likely fire.
- If any abnormal symptom (such as exceptional noise, odor, smog, abnormal temperature rise of electric leakage etc.) occurs, turn off the power immediately and contact local dealer. Do not attempt to repair it by yourself.

## PARTS NAMES

This unit consists of indoor unit and outdoor unit.



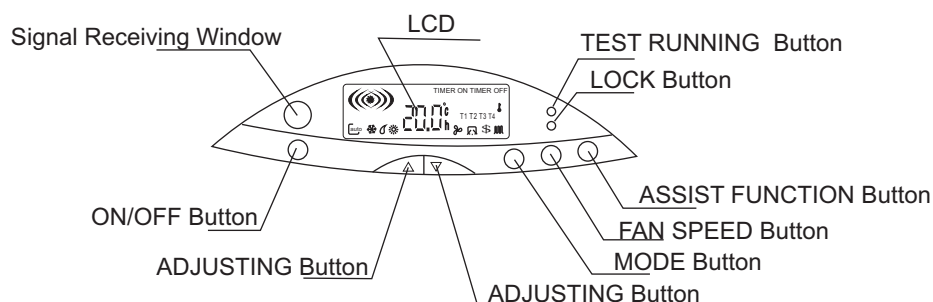
### NOTE

The above air conditioner's outer shape is based on the standard model, so it may be different from the one you purchased.

Air Outlet	Let the conditioned air go out from it.
Control Panel(LCD)	Consists of indicators and control buttons.
Air Inlet	Where a filter is settled, absorbing the air in the room and clean it.
Drain Pipe	From which the condensed water is drained.
Refrigerant Pipe	In which the refrigerant passes through, connects the outdoor unit with the indoor unit.

# CONTROL PANEL

## Control Buttons and Functions



**ON/OFF** button: Operations starts when this button is pressed and stops when you press the button again.

**MODE** button: Selects the appropriate operating mode from following five modes::

Auto: Automatically set the operation mode (Temperature range:17°C~30°C)

Cool: Permits cooling operation (Temperature range:17°C~30°C)

Dry: Permits dehumidifying the room air and keep the indoor temperature balanced (Temperature range:17°C~30°C)

Heat: Permits heating operation(For cooling & heating models only) (Temperature range:17°C~30°C)

Fan: Permits fan operation without cooling or heating.

**ASSIST FUNCTION** button: Use this button to initiate or cancel the assist function.

1. Press this button to initiate assist function setting , the SWING indicator will flash and seven assist functions can be selected by pressing "▲" and "▼" button . Press the **ASSIST FUNCTION** button again to select or cancel the relative function. Different MODELS have different assist functions.



**Note:** Cooling only or Cooling & Heating models without ELECTRICAL HEATING feature

2. Relative indicator flashes under the different mode settings.
3. The present assist function setting can be confirmed or the selected assist function can be canceled by the second depression of the button, then it automatically enters the next assist function setting operation..
4. Assist function setting program automatically cancel when nothing has done to the **ASSIST FUNCTION** button or "▲" and "▼" button within 10seconds. If any other button is pressed during this period, it will override the assist function setting program immediately.

**FAN SPEED** button: This button is used to select the desired fan speed. Each time you push the button, a fan speed is selected in a sequence as following:



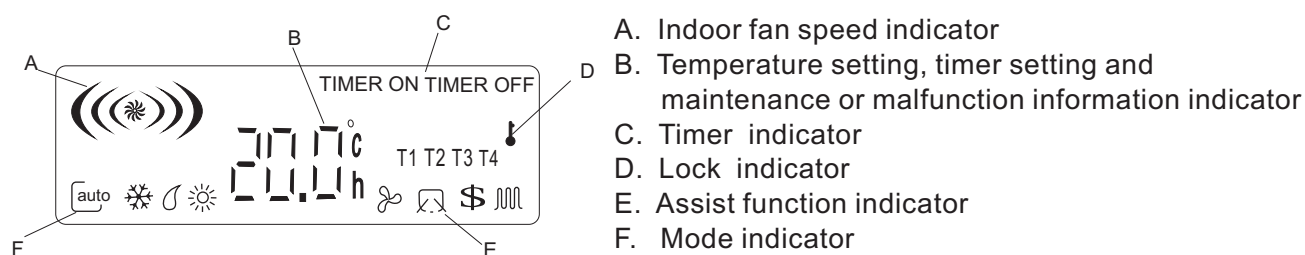
### ADJUSTING button:

1. Temperature adjust: Press the "▲" and "▼" to adjust the temperature except under Assist Function, Timer or Checking setting mode.
2. Timer adjust: Adjust the timer on/off time under the Timer setting mode.
3. Assist function selection: Select the desired assist function by pressing "▲" and "▼".
4. Under the Checking mode, press "▲" and "▼" to check T1, T2, T3, protection code and malfunction code.

**TEST RUNNING** button: This button is specially designed for maintenance technicians. Press this button will enter force cooling operation, press it again to close the test running. If malfunctions occur during test running or air condition operating, press **ADJUSTING** button to display the maintenance information.

**LOCK** button: When you press the **LOCK** button the first time, all the current settings are locked in but the remote controller operation is available. Push this button again to cancel the **LOCK** mode.

## LCD



Meanings of symbols are as shown below:

1. Modes (Select appropriate operation mode, see "Manual operation" for details)

Auto----- AUTO    ❄----- COOLING    ☂----- DRY    ☀----- HEATING    🌀----- FAN

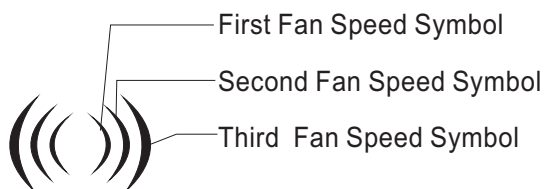
2. Assist functions (see "Manual operation" for details)

🌀 SWING ----- Equally big airflow

💰 ECONOMIC RUNNING ----- Save energy

🔌 ELECTRICAL HEATING ----- Auxiliary electric heater, rendering rapid heating up even in cold winter (Only for the cooling & heating type with Electric heater)

3. Others



The low-frequency flashing cycle of the three fan speed symbols indicate low fan or Auto fan. The high-frequency flashing cycle of the fan speed symbols indicate high fan or Auto fan.

## MANUAL OPERATION

### GENERAL OPERATION

When the air conditioner has been connected with the power supply, follow the procedures given below to operate your air conditioner:

1. Press ON/OFF button to start the unit;
2. Press MODE button to select a desired mode. Keep on pressing the button, the display shows "AUTO→COOL→DRY→HEAT→FAN→AUTO" in turn.
3. If "COOL", "HEAT" or "FAN" is selected, you may press the FAN SPEED button to adjust the indoor fan speed. Keep on pressing the button, the fan speed will be set as "AUTO→LOW→HIGH→AUTO" in turn. But under "AUTO" and "DRY" mode, the fan speed can not be selected. On "AUTO" operation mode, the fan speed is Auto, on "DRY" mode, the fan speed is low.

#### FAN speed display:

When operating manually, the first fan speed symbol displayed indicates low fan, the third symbol displayed indicates high fan, three symbols displayed simultaneously indicate Auto fan. After finishing the settings, it displays in a sequence as "First fan speed symbol→Second fan speed symbol→Third fan speed symbol". When operating with remote controller, low-frequency displaying cycle of three symbols indicates low fan or Auto fan; high-frequency displaying cycle of the symbols indicates high fan or Auto fan.

4. When in "DRY", "COOL", "HEAT" or "AUTO" mode, adjust the temperature by pressing the "△" and "▽" button. Each depress of the button, the temperature would increase/decrease 1°C.
5. Press the ON/OFF button to turn off the air conditioner. Please do not stop the unit by pulling out the power plug or switching off the power supply.
6. When the unit is on, press the ASSIST FUNCTION button, the function displayed as SWING→ECONOMIC RUNNING→ELECTRICAL HEATING→TIMER ON→TIMER OFF by pressing the "△" and "▽" button, press the ASSIST FUNCTION button again to confirm the appropriate mode.

#### Note:

When the unit stays waiting, press the ASSIST FUNCTION button, only TIMER ON and TIMER OFF feature can be activated.

When restart the unit after unplug it from the power supply, the assist function must be reset; if only turn off the unit without shutting off the power, "SWING" feature can be restored in memory.

### TIMER SETTINGS

Note: The program time is not accurate to your local time, please reset it.

#### Setting the AUTO-ON TIMER

1. When the unit is turned to the "off" position (non-operational), to set the AUTO-ON timer, press the ASSIST FUNCTION button, using the "△" and "▽" button to initiate the TIMER ON feature (the TIMER ON indicator will flash). Press the ASSIST FUNCTION button again to register the AUTO TIMER-ON program (the TIMER ON indicator remains on).
2. The time will appear in the display window, press the "△" and "▽" button to select the desired AUTO-ON time, press the ASSIST FUNCTION button again to register the time. The unit will start automatically when the specified AUTO-ON time is achieved and operate under the former operational mode.

#### Setting the AUTO-OFF TIMER

1. Press the ON/OFF button to turn on the unit.
2. To set the AUTO-OFF timer, press the ASSIST FUNCTION button, using the "△" and "▽" button to initiate the TIMER OFF feature (the TIMER-OFF indicator will flash), press the ASSIST FUNCTION button again to register the AUTO TIMER-OFF program (the TIMER OFF indicator remains on).

3. The time will appear in the display window, using the "△" and "▽" to select the desired AUTO-OFF time, press the ASSIST FUNCTION button again to register the time. The unit will stop automatically when the specified AUTO-OFF time is achieved.

Cancel the TIMER settings

To cancel the auto-timed program, press the ASSIST FUNCTION button, then using the "△" and "▽" button to select the specified AUTO-ON/OFF time, press the ASSIST FUNCTION button again to cancel it.

Note:

When the unit is turned to "off" position (non-operations), before setting the AUTO-OFF timer, the AUTO-ON time must be set/operational.

When the unit is turned on, before setting the AUTO-ON timer, the AUTO-OFF time must be set/operational.

## **ADJUSTING THE AIRFLOW DIRECTION**

### **Horizontal Airflow (AUTO)**

Horizontal Airflow may be adjusted by moving the vertical louvers left and right, Press the "ASSIST FUNCTION" button on the control panel to select the "SWING" feature to make the louvers move, repeat the operation again to stop.

**Note:** Do not touch the vertical louvers with hand!

### **Vertical Air flow (MANUAL)**

Vertical Airflow may be adjusted by horizontal louvers, Hold the edge of a vertical louver and move it up and down to adjust vertical air-flow.

**Note:**

- The starting angle of the horizontal louver should not be too small, or the narrow air outlet will affect cooling or heating.
- Do not move the vertical louver manually, or it may malfunction during operation,
- Do not set the starting angle of the louvers too small during cooling or drying operation. Otherwise, condensation may occur on the surface of the horizontal louver and cause dew dripping.



# TROUBLESHOOTING

Before calling for service, please review the following list of common problems and solutions.

Problem	Possible Cause	Solutions
Air conditioner does not operate at all	Power failure	Wait for power restoring
	The power supply is disconnected.	Switch on the main power switch
	The power fuse is blown.	Change the fuse
	The timer is set.	Wait or cancel timer setting
	The batteries of the remote control are exhausted	Change the batteries.
Air conditioner does not cool or heat well	The temperature setting is too high or too low.	Set a more comfortable temperature.
	The air filter is clogged with dust	Clean the filter
	The air inlet or outlet of the outdoor unit is blocked	Clear up the block
	Doors or windows are open	Close the doors or windows
Air conditioner does not cool or heat at all	The air inlet or outlet of the outdoor unit is blocked	Clear up the block first, then begin to operate.
	Three-minute protection feature	Wait for a while
	Unappropriated temperature setting	Set the temperature properly

Number	Display code	Problems	What to do
1	E1、E2 E3、E4	Temperature Sensor is off or short-circuit.	Contact service people
2	E6	Outdoor unit protection	Contact service people
3	E8	Electrostatic dust collection	Contact service people
4	P4	The temperature of the evaporator of indoor unit is too low or high (For the protection feature, the compressor turns off automatically)	Turn off the unit, clean the air filter, then restart the unit. If this operation does not work, please contact service people.
5	P5	The temperature of condenser of the outdoor unit is too high (For the protection feature, the compressor turns off automatically)	Turn off the unit, check if there is any obstacle in the air-inlet, otherwise call the service people.
6	P9	Defrosting protection or warm-air controlling is off	The unit will auto restart after finishing the defrosting or the temperature of the Heat Exchanger of indoor unit raise.

## CAUTION:

When the power cord is to be replaced, replacement work shall be performed by authorized personnel only.

## PHENOMENA NOT CONCERNING MALFUNCTIONS

The following symbols do not mean the unit is abnormal.

### 1. Compressor protection Feature

- Protection for compressor---The compressor can not operate within 3 minutes.

Warm air control(For cooling and heating models only)

Under the HEAT mode, the indoor fan speed is automatically reduced or stopped to prevent a cold draft if the set temperature has not been reached under the following three situations:

①Just start heating operation    ② Defrosting    ③Heating in a low temperature

- Defrosting (For cooling and heating models only)

Frost may be generated on Outdoor Heat Exchanger when outdoor temperature is low and humidity is high, It would lower heating efficiency of the conditioner. The air conditioner would stop heating operation and start defrosting automatically. After finishing the defrosting, it will restart heating operation.

①The fans in both of the indoor and outdoor units will stop running during defrosting operation.

② the time of defrosting is different according to the outdoor temperature and frost degree.(For approximately 4~10 minutes).

③During defrosting, white smog may be come out from outdoor unit. This is caused by quickly frosted and it's normal operation.

### 2. White smog discharged from indoor unit

- When running on"cooling" mode at a place with high humidity, white smog may come into being because of high humidity and high difference in temperature.
- When the air conditioner finish the defrosting, it will automatically turn to heating operation, the water produced during defrosting will change into smog and come out from indoor unit.

### 3. Low noise of air conditioner

- When the compressor operating or just stopping, there may be some"ss" sound caused by the refrigerant flowing between indoor and outdoor unit .
- After air conditioner starting or stopping for a short while, there may be some"zz"sound caused by natural expansion or shrinkage of plastic parts because of the temperature change.

### 4. Dust blowing from indoor unit

- After being left unused for long time, the dust may blow out from indoor unit if it is operated again.

### 5. Odor from indoor unit

- The indoor unit absorbs odor of room, furniture or cigarette and emanates them during operation.

### 6. "Cooling"and"Heating" mode turned to "Fan" mode (Cooling only models without heating)

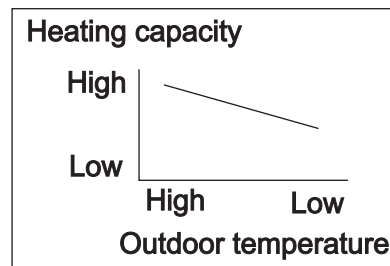
- If the indoor temperature achieves to set one, the air conditioner controller will stop compressor from running automatically and convert to "Fan" mode. When the temperature increases or decreases to a certain value, the compressor will restart and the unit will get right

### 7. When cooling under high humidity condition(relative humidity>80%), condensate may occur on the surface of indoor unit. Please set the louver at the position with Max. air flow(normal to vertical direction) and select"High" fan speed.

### 8. Lightning, car or mobile telephone may cause malfunction of the air conditioner, Please unplug your unit for several seconds , then connect it again and restart it.

#### 9. Heating capacity (For cooling and heating models only)

In heating operation, heat is absorbed from outdoor and released into the room. That is so-called heat pump system. When the outdoor temperature is too low, heat absorbed from outdoor reduced and will result in reduced heating capacity (see the right picture). There is a big difference in temperature between indoor and outdoor, and this will increase the heating load. In this case. You are recommended to use another heating apparatus in combination with the air conditioner.



## MAINTENANCE AND CLEANING

**CAUTION:** For your safety, please turn off the unit and shut down the main power switch before cleaning.

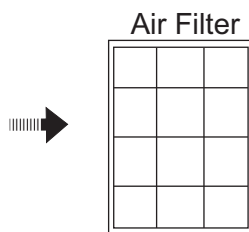
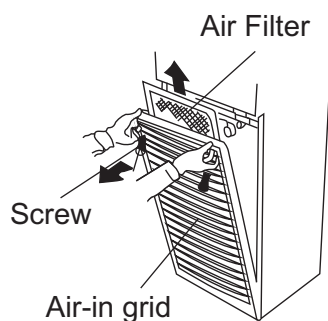
1. Use a dry cloth to wipe the indoor unit and remote controller.
2. A cloth dampened with cold water may be used on the indoor unit if it is very dirty.
3. Do not splash water on unit. This may cause damage to the inner parts or an electric shock.

#### CAUTION:

1. Do not use a chemical-treated duster for wiping or leave such material on the unit for long.
2. Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

#### Air inlet grille and air filter cleaning

The air filter should be checked and cleaned at least once every 2 weeks to maintain optimal performance of the air conditioner.



#### Note:

The Anti-formol filter fixed on the Air filter does not need replacement, just wash it with water and dry it in the shadow.

1. Unscrew the air inlet grille on both sides, hold both sides of the grille and pull it up, then pull out the grille.
2. Take hold of the air filter holder and pull it upward.
3. The air inlet grille can be washed by water or wipe with a dry cloth, then dry it in a cool place.
4. Use a vacuum cleaner to remove the dust or wash the air filter, and dry it in the shadow.
5. Installation process of the air filter and air inlet grille is the reverse of the removal process.

#### CAUTION:

Make sure nothing has been forgotten or fallen into the fan before installing the air inlet grille. Restart the unit after the air inlet grille is correctly installed.

## **MAINTENANCE**

### ***Before long time idleness***

1. Clean the indoor unit and air filter.
2. Dry the inner parts by keeping the fan running for half a day.
3. Turn off the unit and switch off the power switch, remove the batteries from the remote control.
4. Periodically check and clean the inner parts of the outdoor unit. Our local dealer will help you handle this if you contact us.

### ***After long time idleness***

Before restarting, please check if the air inlet and air outlet of the indoor and outdoor units are blocked up. Clean it so.

## **AFTERSALES**

If the air conditioner operate abnormally, turn off the unit and switch off the power and contact the local dealer or service center.

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